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PSG Hereford

HEREFORD HOUSE, 20, EAST STREET,
Hereford, HR1 2LU

Groundsure Reference: FHER-5878926

Your Reference: JO/HOPE FIELD

Report Date 14 Mar 2019

Report Delivery Method: Email - pdf

Enviro Insight

Address: HOPE FIELD, HANWAY, RICHARDS CASTLE, LUDLOW, SY8 4EB

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 01432 355 335 quoting the above report reference number.

Yours faithfully,

The Property Search Group

Enc.

Groundsure Enviroinsight

Address: HOPE FIELD, HANWAY, RICHARDS CASTLE, LUDLOW, SY8 4EB
Date: 14 Mar 2019
Reference: FHER-5878926
Client: PSG Hereford



Aerial Photograph Capture date: 12-Aug-2015
Grid Reference: 348662,271116
Site Size: 3.3426ha

Report Reference: FHER-5878926
Client Reference: JO/HOPE FIELD

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Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

| Section 1: Historical Industrial Sites | On-site | 0-50 | 51-250 | 251-500 |
|--|---------|-------|--------|---------|
| 1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping | 0 | 0 | 0 | 12 |
| 1.2 Additional Information – Historical Tank Database | 0 | 0 | 0 | 0 |
| 1.3 Additional Information – Historical Energy Features Database | 0 | 0 | 0 | 0 |
| 1.4 Additional Information – Historical Petrol and Fuel Site Database | 0 | 0 | 0 | 0 |
| 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database | 0 | 0 | 0 | 0 |
| 1.6 Historical military sites | 0 | 0 | 0 | 0 |
| 1.7 Potentially Infilled Land | 0 | 1 | 1 | 13 |
| Section 2: Environmental Permits, Incidents and Registers | On-site | 0-50m | 51-250 | 251-500 |
| 2.1 Industrial Sites Holding Environmental Permits and/or Authorisations | | | | |
| 2.1.1 Records of historic IPC Authorisations | 0 | 0 | 0 | 0 |
| 2.1.2 Records of Part A(1) and IPPC Authorised Activities | 0 | 0 | 0 | 0 |
| 2.1.3 Records of Red List Discharge Consents | 0 | 0 | 0 | 0 |
| 2.1.4 Records of List 1 Dangerous Substances Inventory sites | 0 | 0 | 0 | 0 |
| 2.1.5 Records of List 2 Dangerous Substances Inventory sites | 0 | 0 | 0 | 0 |
| 2.1.6 Records of Part A(2) and Part B Activities and Enforcements | 0 | 0 | 0 | 0 |
| 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations | 0 | 0 | 0 | 0 |
| 2.1.8 Records of Licensed Discharge Consents | 0 | 0 | 0 | 1 |
| 2.1.9 Records of Water Industry Referrals | 0 | 0 | 0 | 0 |
| 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site | 0 | 0 | 0 | 0 |
| 2.2 Records of COMAH and NIHS sites | 0 | 0 | 0 | 0 |
| 2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents | | | | |
| 2.3.1 National Incidents Recording System, List 2 | 0 | 0 | 0 | 0 |
| 2.3.2 National Incidents Recording System, List 1 | 0 | 0 | 0 | 0 |
| 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990 | 0 | 0 | 0 | 0 |

Section 3: Landfill and Other Waste Sites

On-site 0-50m 51-250 251-500 501-1000 1000-1500

3.1 Landfill Sites

| | | | | | | |
|--|---|---|---|---|---|--------------|
| 3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites | 0 | 0 | 0 | 0 | 0 | Not searched |
| 3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.1.3 BGS/DoE Landfill Site Survey | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.1.4 Records of Landfills in Local Authority and Historical Mapping Records | 0 | 0 | 0 | 0 | 0 | 0 |

3.2 Landfill and Other Waste Sites Findings

| | | | | | | |
|--|---|---|---|---|--------------|--------------|
| 3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites | 0 | 0 | 0 | 0 | 0 | 0 |

Section 4: Current Land Use

On-site 0-50m 51-250 251-500

| | | | | |
|--|---|---|---|--------------|
| 4.1 Current Industrial Sites Data | 0 | 0 | 0 | Not searched |
| 4.2 Records of Petrol and Fuel Sites | 0 | 0 | 0 | 0 |
| 4.3 National Grid Underground Electricity Cables | 0 | 0 | 0 | 0 |
| 4.4 National Grid Gas Transmission Pipelines | 0 | 0 | 0 | 0 |

Section 5: Geology

| | |
|--|-----------------|
| 5.1 Records of Artificial Ground and Made Ground present beneath the study site | None identified |
| 5.2 Records of Superficial Ground and Drift Geology present beneath the study site | Identified |
| 5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section. | |

Section 6: Hydrogeology and Hydrology

0-500m

| | |
|---|------------|
| 6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site | Identified |
| 6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site | Identified |

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|---|---------|-------|--------|---------|--------------|--------------|
| 6.3 Groundwater Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.4 Surface Water Abstraction Licences (within 2000m of the study site) | 1 | 0 | 0 | 0 | 1 | 3 |
| 6.5 Potable Water Abstraction Licences (within 2000m of the study site) | 1 | 0 | 0 | 0 | 0 | 0 |
| 6.6 Source Protection Zones (within 500m of the study site) | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.7 Source Protection Zones within Confined Aquifer | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site) | 0 | 1 | 0 | 1 | Not searched | Not searched |

Section 6: Hydrogeology and Hydrology

0-500m

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-1500 |
|--|---------|-------|--------|--------------|--------------|--------------|
| 6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site | No | No | No | No | No | No |
| 6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site | 4 | 2 | 14 | 10 | Not searched | Not searched |
| 6.11 Surface water features within 250m of the study site | Yes | Yes | Yes | Not searched | Not searched | Not searched |

Section 7: Flooding

| | | | | | | |
|---|----------------------|--|--|--|--|--|
| 7.1 Environment Agency Zone 2 floodplains within 250m of the study site | None identified | | | | | |
| 7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site | None identified | | | | | |
| 7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site | Very Low | | | | | |
| 7.4 Flood Defences within 250m of the study site | None identified | | | | | |
| 7.5 Areas benefiting from Flood Defences within 250m of the study site | None identified | | | | | |
| 7.6 Areas used for Flood Storage within 250m of the study site | None identified | | | | | |
| 7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site | Potential at Surface | | | | | |
| 7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas | High | | | | | |

Section 8: Designated Environmentally Sensitive Sites

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|--|---------|-------|--------|---------|----------|-----------|
| 8.1 Records of Sites of Special Scientific Interest (SSSI) | 0 | 1 | 0 | 0 | 1 | 3 |
| 8.2 Records of National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.3 Records of Special Areas of Conservation (SAC) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.4 Records of Special Protection Areas (SPA) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.5 Records of Ramsar sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.6 Records of Ancient Woodlands | 2 | 0 | 0 | 2 | 4 | 11 |
| 8.7 Records of Local Nature Reserves (LNR) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.8 Records of World Heritage Sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.9 Records of Environmentally Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |

Section 8: Designated Environmentally Sensitive Sites

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|--|---------|-------|--------|---------|----------|-----------|
| 8.10 Records of Areas of Outstanding Natural Beauty (AONB) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.11 Records of National Parks | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.12 Records of Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.13 Records of Nitrate Vulnerable Zones | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.14 Records of Green Belt land | 0 | 0 | 0 | 0 | 0 | 0 |

Section 9: Natural Hazards

9.1 Maximum risk of natural ground subsidence

Very Low

9.1.1 Maximum Shrink-Swell hazard rating identified on the study site

Very Low

9.1.2 Maximum Landslides hazard rating identified on the study site

Moderate

9.1.3 Maximum Soluble Rocks hazard rating identified on the study site

Very Low

9.1.4 Maximum Compressible Ground hazard rating identified on the study site

Negligible

9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site

Very Low

9.1.6 Maximum Running Sand hazard rating identified on the study site

Very Low

9.2 Radon

9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?

The site is in a Radon Affected Area, as between 5 and 10% of properties are above the Action Level.

9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?

Basic radon protective measures are necessary.

Section 10: Mining

10.1 Coal mining areas within 75m of the study site

None identified

10.2 Non-Coal Mining areas within 50m of the study site boundary

Identified

10.3 Brine affected areas within 75m of the study site

None identified

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licences, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

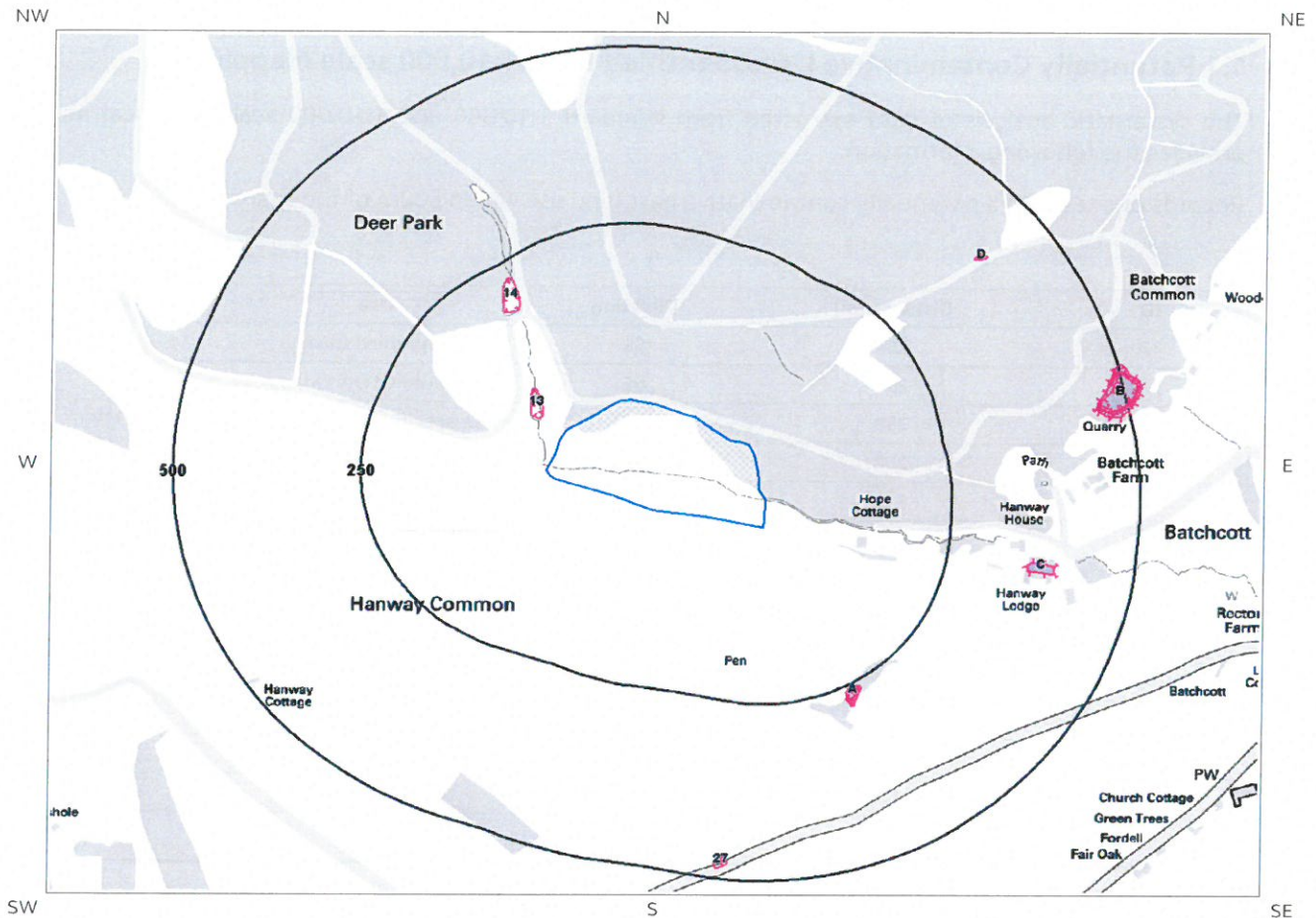
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

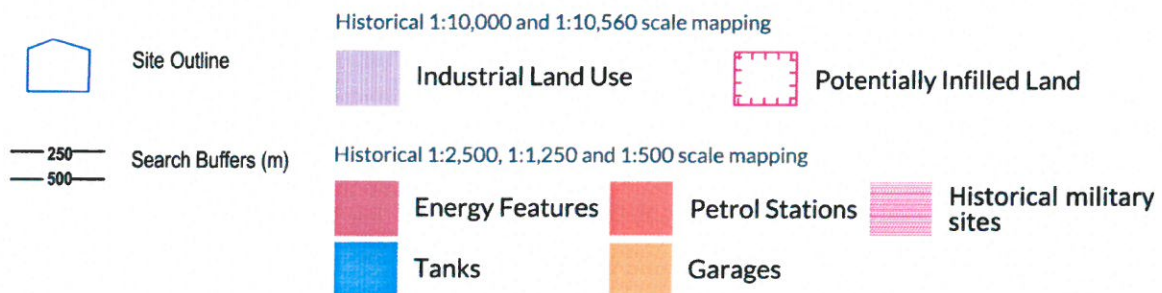
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use



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1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 12

| ID | Distance [m] | Direction | Use | Date |
|-----|--------------|-----------|----------------------------|------|
| 1A | 254 | SE | Unspecified Quarry | 1884 |
| 2A | 258 | SE | Unspecified Old Quarry | 1902 |
| 3A | 258 | SE | Unspecified Old Quarry | 1949 |
| 4A | 258 | SE | Unspecified Old Quarry | 1949 |
| 5C | 358 | E | Unspecified Pit | 1884 |
| 6D | 398 | NE | Unspecified Quarry | 1884 |
| 7B | 461 | E | Unspecified Disused Quarry | 1978 |
| 8B | 461 | E | Unspecified Quarry | 1884 |
| 9B | 462 | E | Unspecified Quarry | 1949 |
| 10B | 464 | E | Unspecified Quarry | 1924 |
| 11B | 464 | E | Unspecified Quarry | 1902 |
| 12B | 464 | E | Unspecified Quarry | 1949 |

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 0

Database searched and no data found.

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 0

Database searched and no data found.

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 0

Database searched and no data found.

1.6 Historical military sites

Certain military installations were not noted on historic mapping for security reasons. Whilst not all military land is necessarily of concern, Groundsure has researched and digitised a number of Ordnance Factories and other military industrial features (e.g. Ordnance Depots, Munitions Testing Grounds) which may be of contaminative concern. This research was drawn from a number of different sources, and should not be regarded as a definitive or exhaustive database of potentially contaminative military installations. The boundaries of sites within this database have been estimated from the best evidence available to Groundsure at the time of compilation.

Records of historical military sites within 500m of the search boundary: 0

Database searched and no data found.

1.7 Potentially Infilled Land

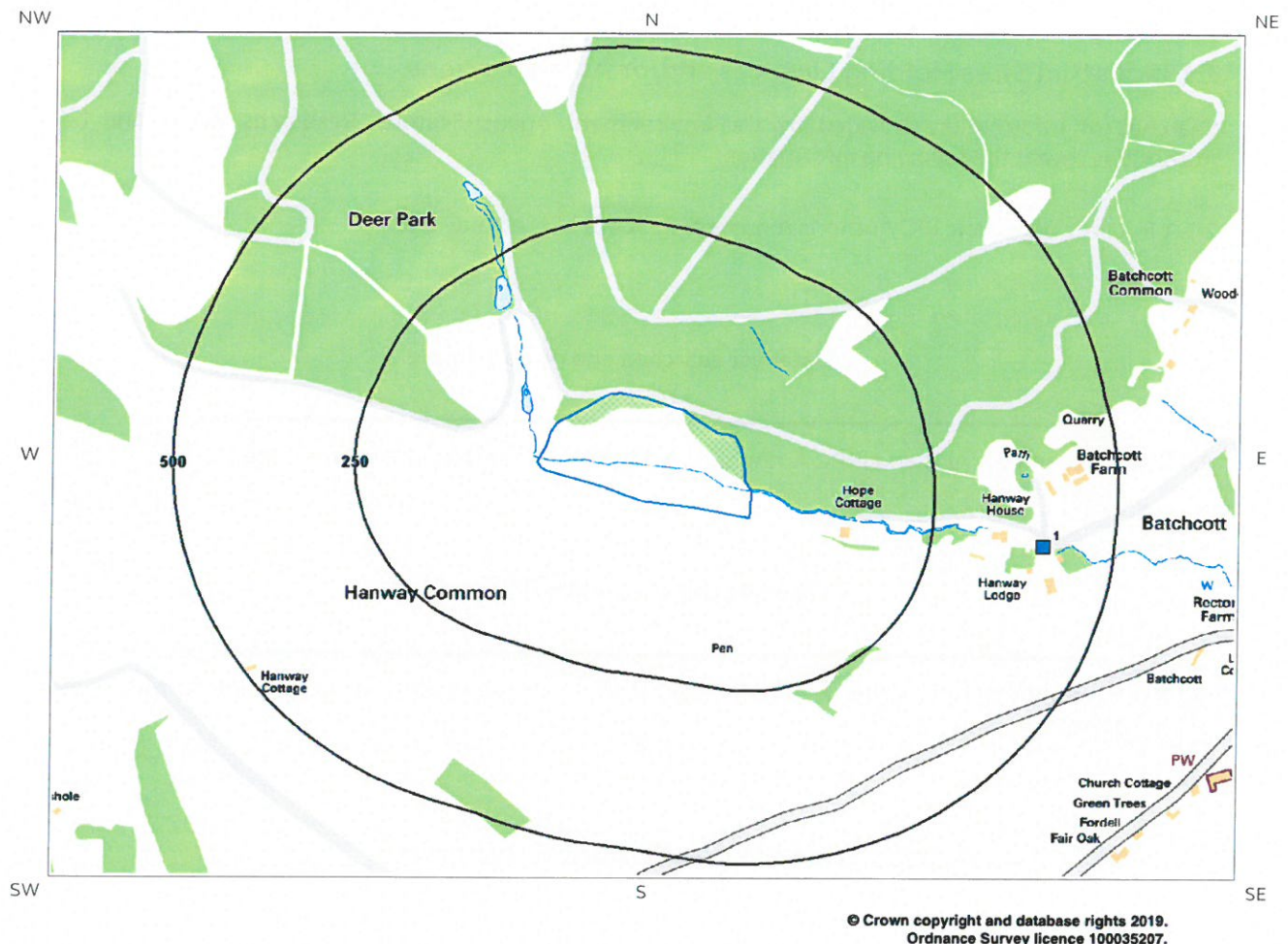
Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 15

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

| ID | Distance(m) | Direction | Use | Date |
|-----|-------------|-----------|----------------------------|------|
| 13 | 37 | NW | Pond | 1978 |
| 14 | 181 | NW | Pond | 1978 |
| 15A | 254 | SE | Unspecified Quarry | 1884 |
| 16A | 258 | SE | Unspecified Old Quarry | 1902 |
| 17A | 258 | SE | Unspecified Old Quarry | 1949 |
| 18A | 258 | SE | Unspecified Old Quarry | 1949 |
| 19C | 358 | E | Unspecified Pit | 1884 |
| 20D | 398 | NE | Unspecified Quarry | 1884 |
| 21B | 461 | E | Unspecified Disused Quarry | 1978 |

| | | | | |
|-----|-----|---|--------------------|------|
| 22B | 461 | E | Unspecified Quarry | 1884 |
| 23B | 462 | E | Unspecified Quarry | 1949 |
| 24B | 464 | E | Unspecified Quarry | 1949 |
| 25B | 464 | E | Unspecified Quarry | 1924 |
| 26B | 464 | E | Unspecified Quarry | 1902 |
| 27 | 468 | S | Pond | 1902 |

2. Environmental Permits, Incidents and Registers Map



- | | | |
|--------------------|-------------------------------|--|
| Site Outline | Recorded Pollution Incident | RAS 3 & 4 Authorisations |
| Search Buffers (m) | Dangerous Substances (List 1) | Part A(1) Authorised Processes and Historic IPC Authorisations |
| | Dangerous Substances (List 2) | Part A(2) and Part B Authorised Processes |
| | Water Industry Referrals | COMAH / NIHHS Sites |
| | Licenced Discharge Consents | Sites Determined as Contaminated Land |
| | Red List Discharge Consents | Hazardous Substance Consents and Enforcements |

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

1

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details |
|----|--------------|-----------|------------------|--|
| 1 | 403 | E | 349187 270988 | <p>Address: HANWAY LODGE, RICHARDS CASTLE, LUDLOW, ., SHROPSHIRE, SY8 4EB</p> <p>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY</p> <p>Permit Number: EPRAB3599DW</p> <p>Permit Version: 1</p> <p>Receiving Water: TRIBUTARY OF THE RIVER TEME.</p> <p>Status: NEW ISSUED UNDER EPR 2010</p> <p>Issue date: 02/04/2014</p> <p>Effective Date: 02-Apr-2014</p> <p>Revocation Date: -</p> |

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site:

0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

0

Database searched and no data found.

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

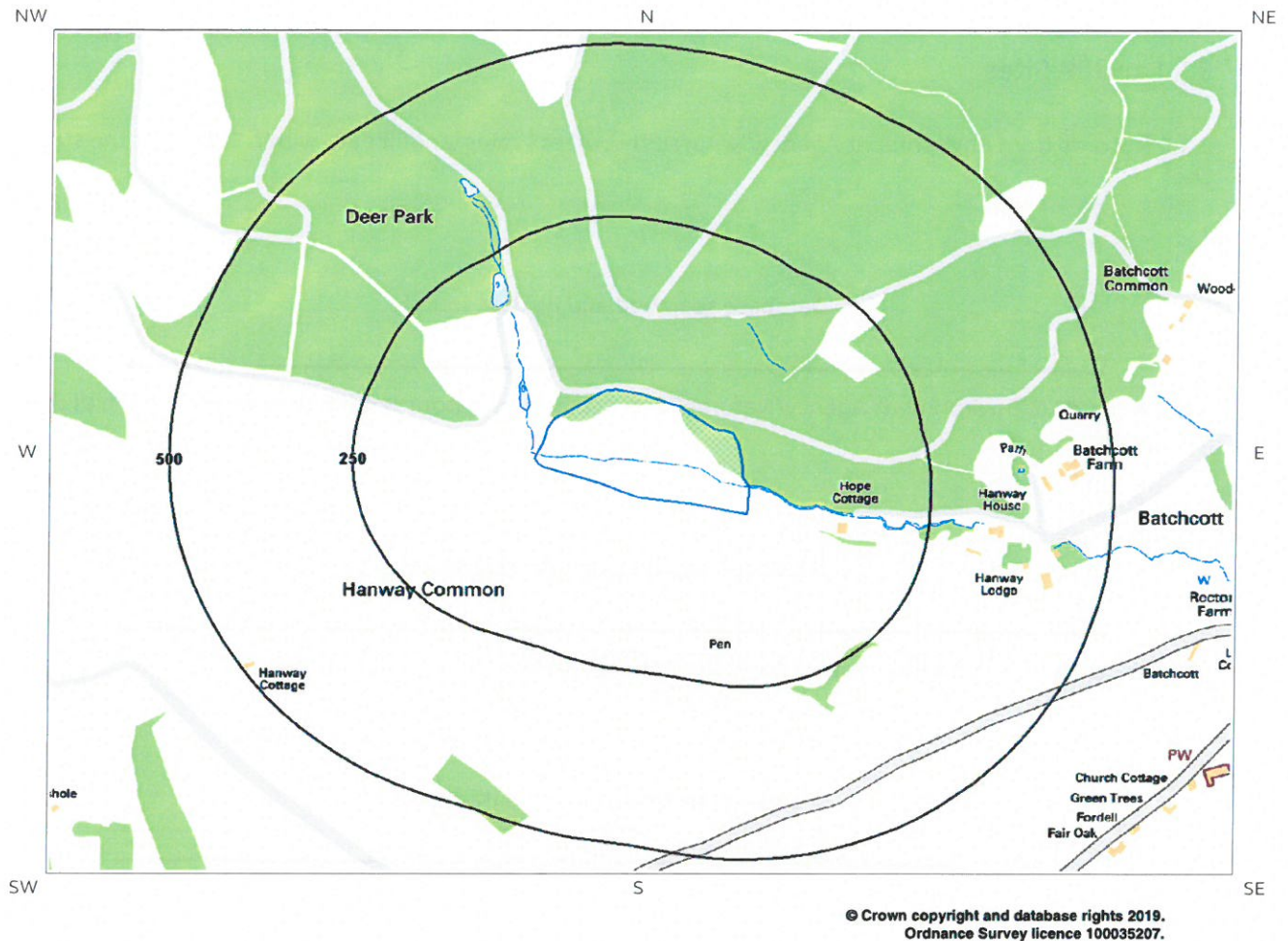
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site

0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

0

Database searched and no data found.

3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

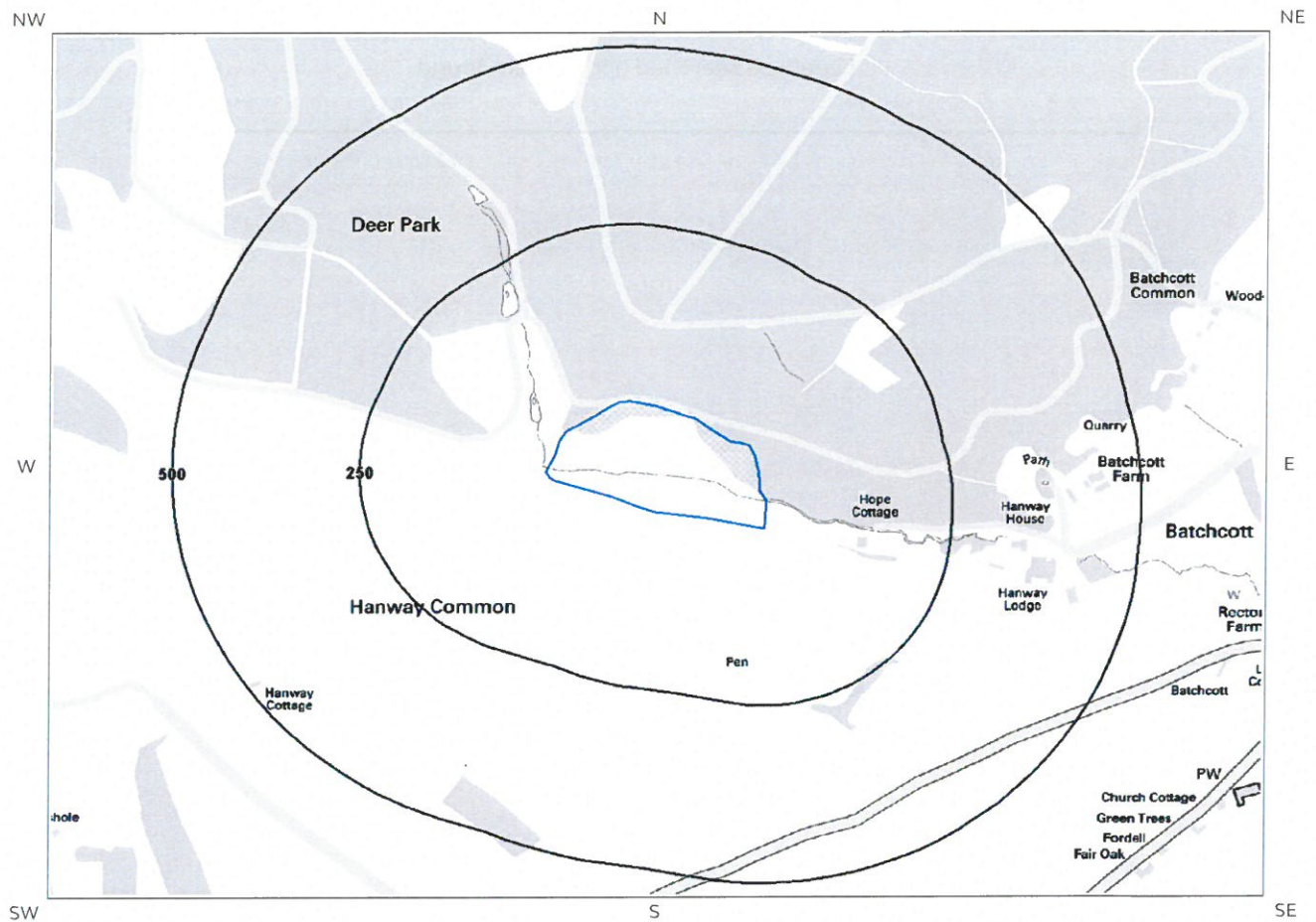
Database searched and no data found.

3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

0

Database searched and no data found.

4. Current Land Use Map



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4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 0

Database searched and no data found.

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 0

Database searched and no data found.

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|------------|-------------|-----------------------------|
| HEAD-XCZSV | HEAD | CLAY, SILT, SAND AND GRAVEL |

5.3 Bedrock and Solid Geology

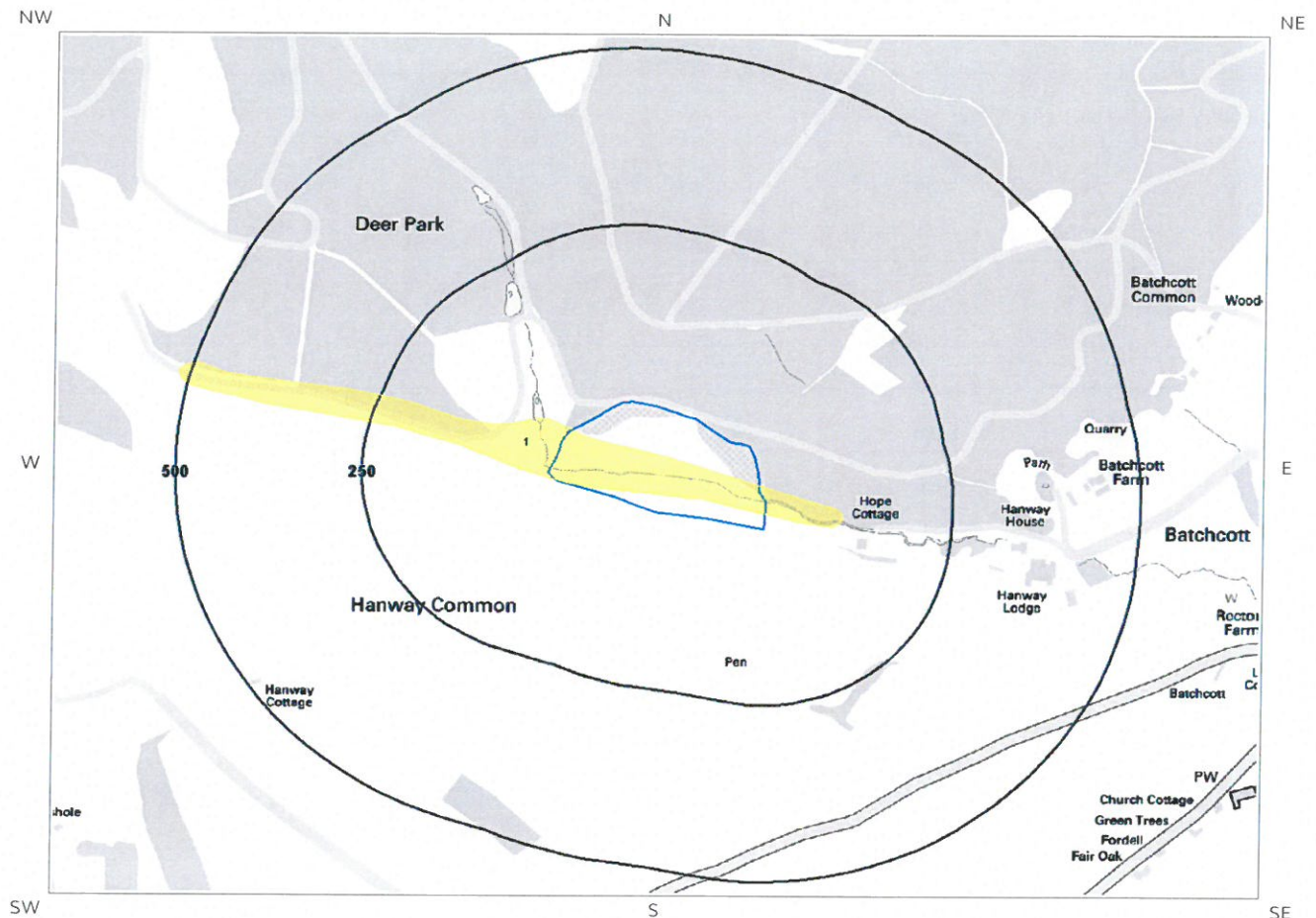
The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|-----------|--|-----------|
| LULT-SLST | LOWER LEINTWARDINE FORMATION AND UPPER LEINTWARDINE FORMATION (UNDIFFERENTIATED) | SILTSTONE |
| AL-LMST | AYMESTRY LIMESTONE FORMATION | LIMESTONE |
| LBN-SLST | LOWER BRINGWOOD FORMATION | SILTSTONE |

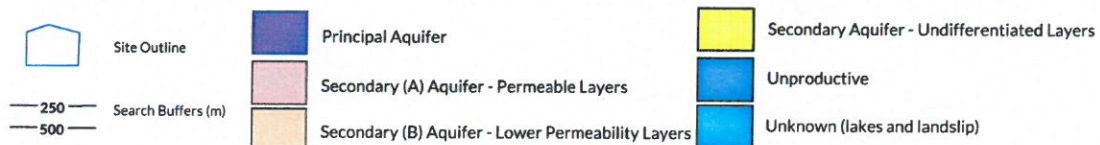
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

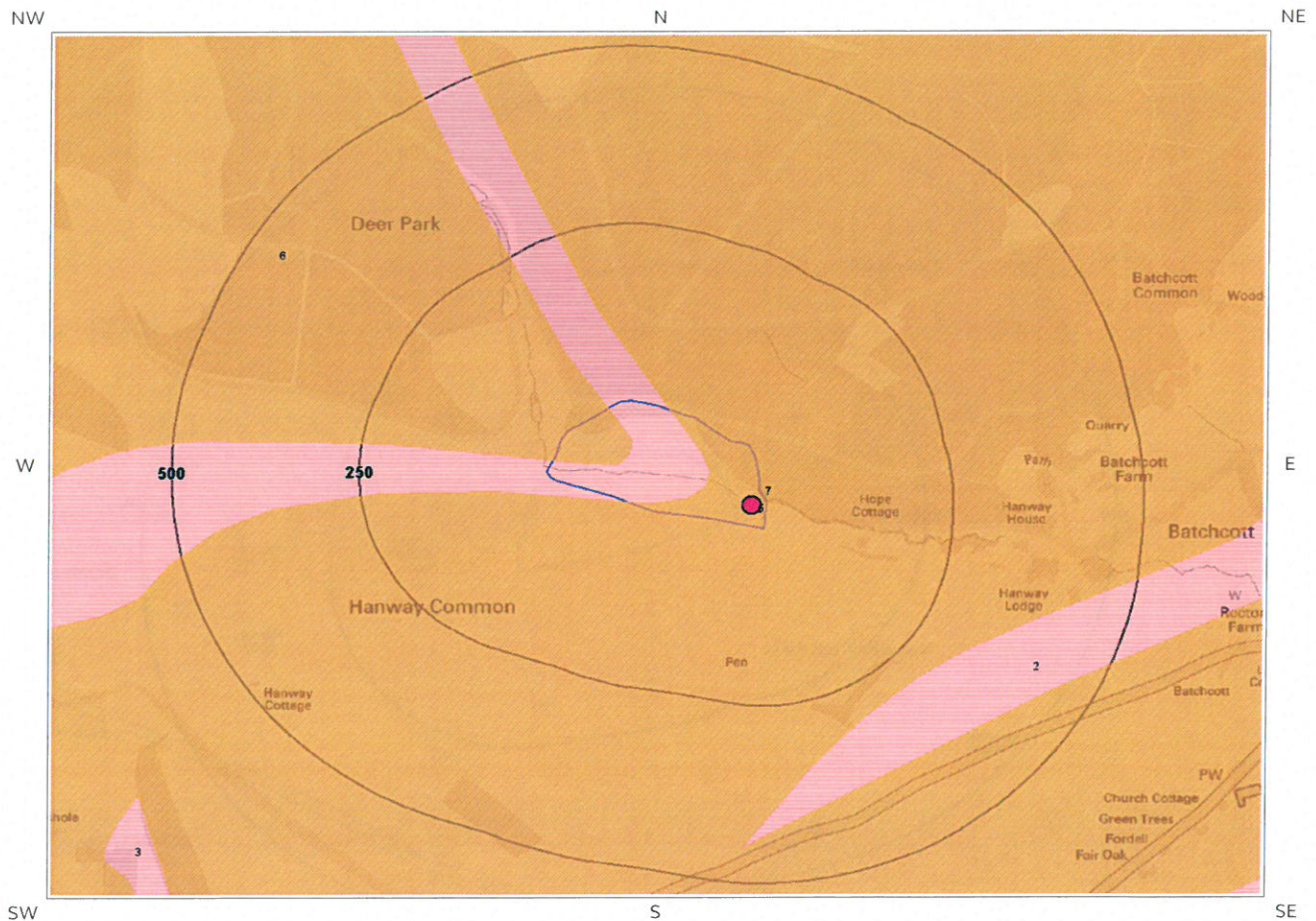
6a. Aquifer Within Superficial Geology



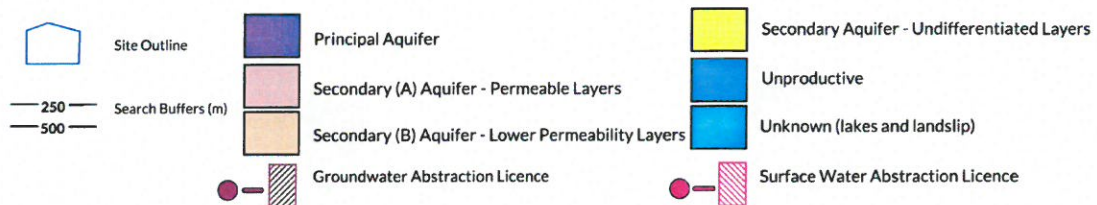
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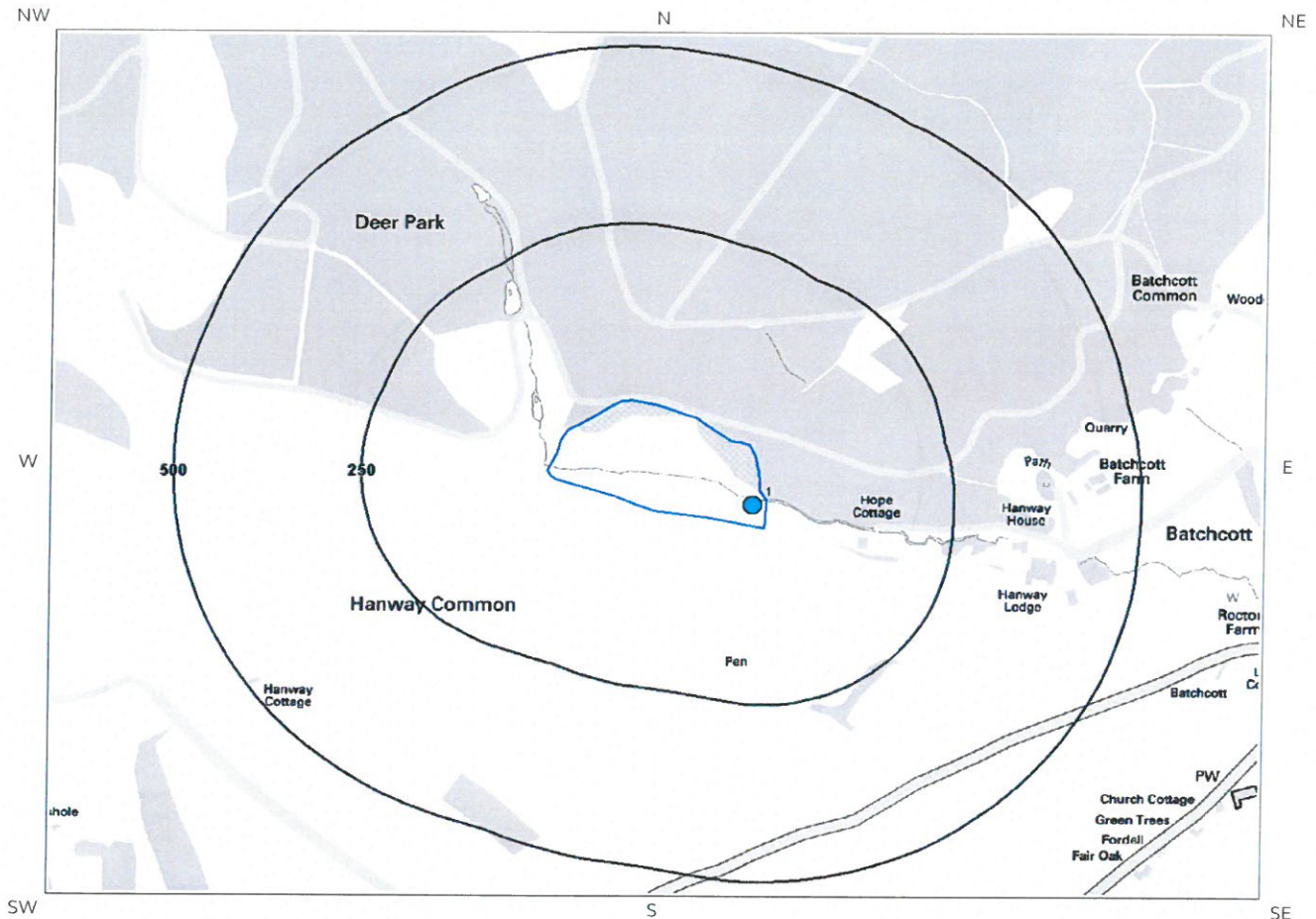
6b. Aquifer Within Bedrock Geology and Abstraction Licences



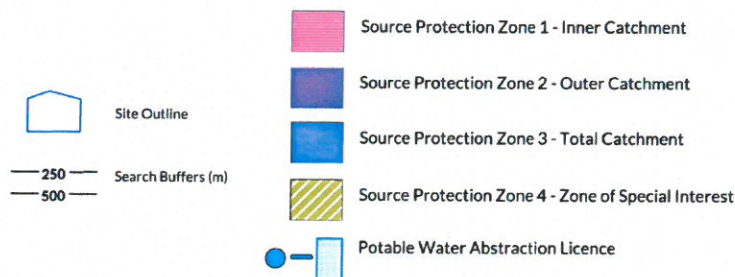
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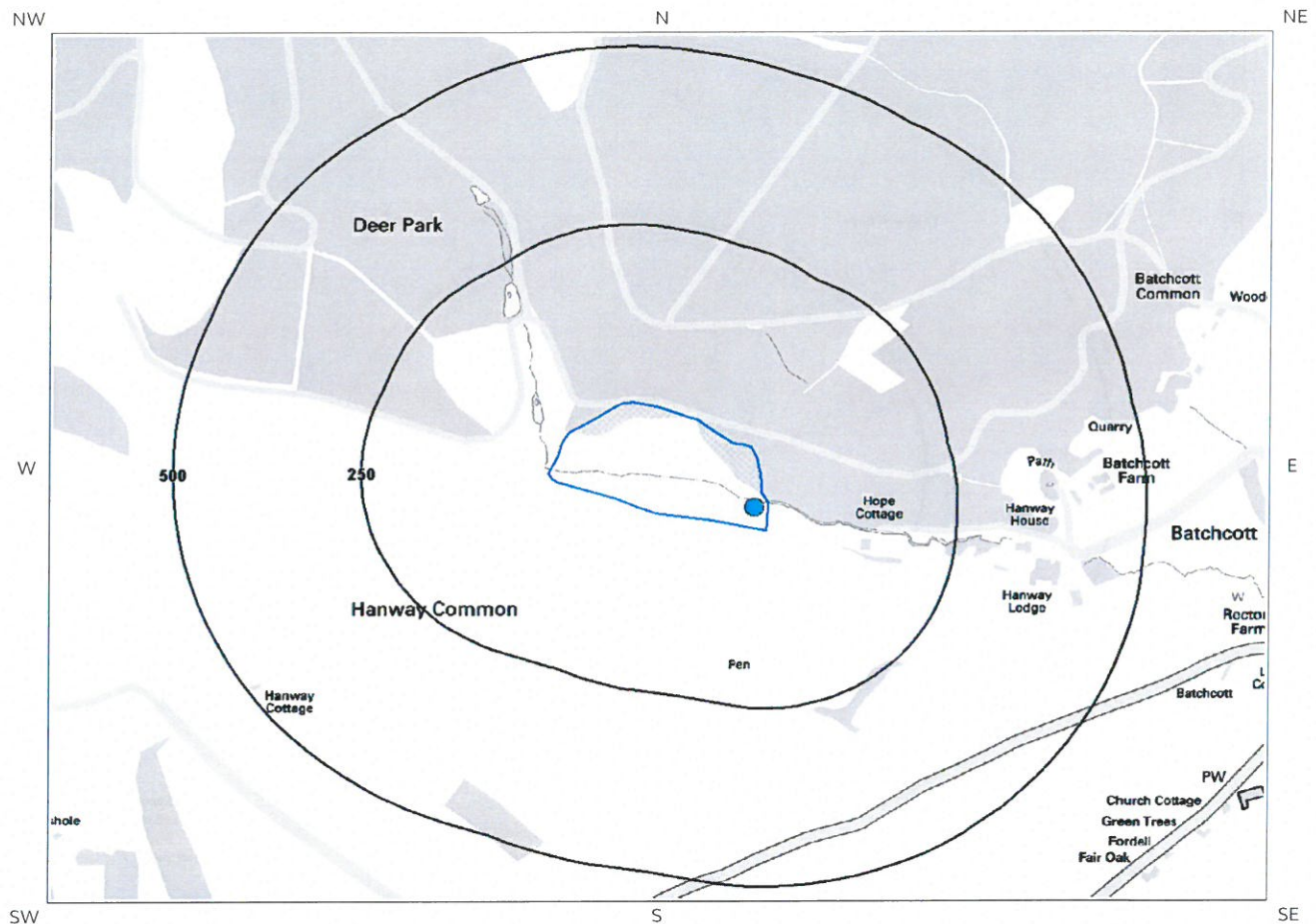
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences



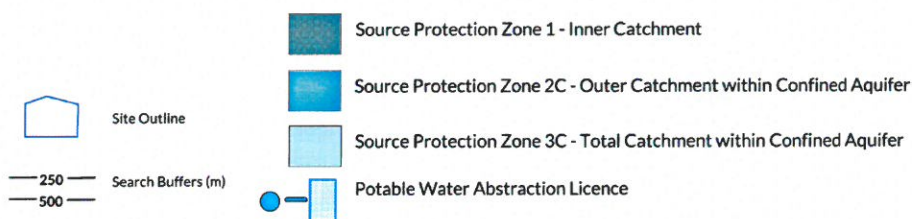
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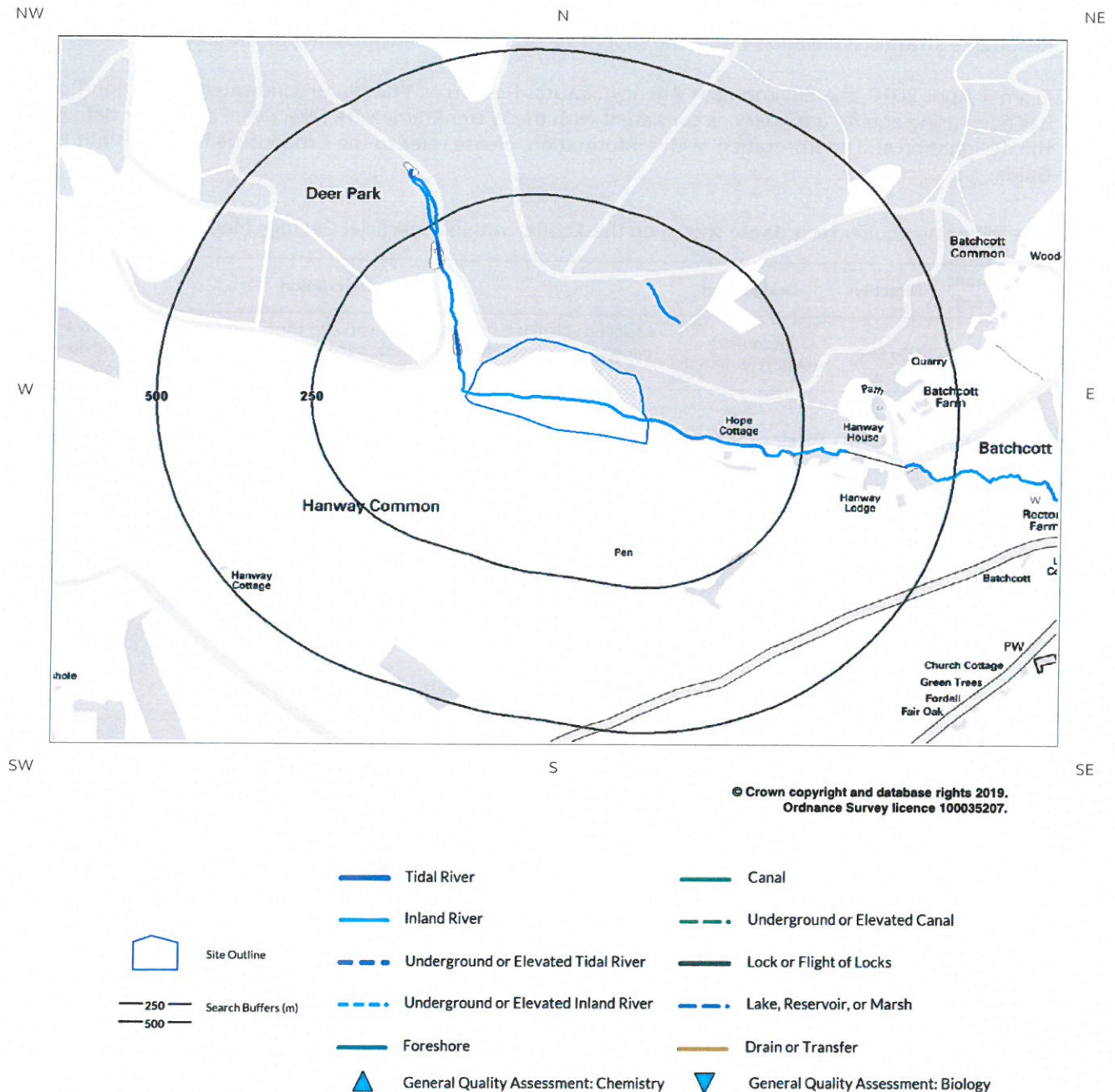
6d. Hydrogeology – Source Protection Zones within confined aquifer



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6e. Hydrology – Watercourse Network and River Quality



6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

| ID | Distance (m) | Direction | Designation | Description |
|----|--------------|-----------|------------------------------|---|
| 1 | 0 | On Site | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |

6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

| ID | Distance (m) | Direction | Designation | Description |
|----|--------------|-----------|-------------|---|
| 1 | 0 | On Site | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 5 | 0 | On Site | Secondary B | Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers |
| 6 | 0 | On Site | Secondary B | Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers |
| 2 | 293 | SE | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site

None identified

Database searched and no data found.

6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site

Identified

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

| ID | Distance (m) | Direction | NGR | Details |
|-----------|--------------|-----------|------------------|---|
| 7 | 0 | On Site | 348770 271060 | <p>Status: Historical Licence No: 18/54/09/0569 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface Water Midlands Region Point: MOOR PARK SCHOOL, LUDLOW - SPRING FED RESERVOIR Data Type: Point Name: MOOR PARK CHARITABLE TRUST LTD</p> <p>Annual Volume (m³): 5500 Max Daily Volume (m³): 20 Application No: - Original Start Date: 27/07/1994 Expiry Date: - Issue No: 101 Version Start Date: 16/02/2005 Version End Date:</p> |
| Not shown | 896 | SW | 348100 270300 | <p>Status: Historical Licence No: 18/54/09/0005 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface Water Midlands Region Point: RICHARDS CASTLE, LUDLOW - SPRING Data Type: Point Name: H SALWEY & CO</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 26/02/1993 Version End Date:</p> |
| Not shown | 1420 | NE | 349900 272000 | <p>Status: Historical Licence No: 18/54/09/0006 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface Water Midlands Region Point: RICHARDS CASTLE, LUDLOW - SPRING (2) Data Type: Point Name: H SALWEY & CO</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 26/02/1993 Version End Date:</p> |
| Not shown | 1477 | NE | 349800 272200 | <p>Status: Historical Licence No: 18/54/09/0006 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface Water Midlands Region Point: RICHARDS CASTLE, LUDLOW - SPRING (1) Data Type: Point Name: H SALWEY & CO</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 26/02/1993 Version End Date:</p> |
| Not shown | 1799 | W | 346700 271000 | <p>Status: Historical Licence No: 18/54/09/0022 Details: General Farming & Domestic Direct Source: Surface Water Midlands Region Point: ELTON HALL, NR LUDLOW - SPRING Data Type: Point Name: HEPWORTH</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 20/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/10/1984 Version End Date:</p> |

6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site

Identified

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (6c):

| ID | Distance (m) | Direction | NGR | Details |
|----|--------------|-----------|------------------|---|
| 1 | 0 | On Site | 348770 271060 | <p>Status: Historical Licence No: 18/54/09/0569 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface Water Midlands Region Point: MOOR PARK SCHOOL, LUDLOW - SPRING FED RESERVOIR Data Type: Point Name: MOOR PARK CHARITABLE TRUST LTD</p> <p>Annual Volume (m³): 5500 Max Daily Volume (m³): 20 Original Application No: - Original Start Date: 27/07/1994 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:</p> |

6.6 Source Protection Zones

Source Protection Zones within 500m of the study site

None identified

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site

None identified

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site Identified

| Distance (m) | Direction | Classification | Soil Vulnerability Category | Description |
|--------------|-----------|---|-----------------------------|--|
| 17 | NW | Minor Aquifer/High Leaching Potential | H3 | Coarse textured or moderately shallow soils which readily transmit non-adsorbed pollutants and liquid discharges but have some ability to attenuate adsorbed pollutants because of their clay or organic matter content. |
| 295 | SE | Minor Aquifer/Intermediate Leaching Potential | I1 | Soils which can possibly transmit a wide range of pollutants. |

6.9 River Quality

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site None identified

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Database searched and no data found.

6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.

The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

| ID | Distance/Direction | Name | Type of Watercourse | Additional Details |
|----|--------------------|---------------|---|---|
| 1 | 0 | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|----|------------------------|---------------|---|---|
| | On Site | | | Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 2 | 0 NE | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.5 |
| 4 | 0 On Site | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 5 | 0 NE | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.5 |
| 3 | 39 NW | Not Specified | Lake, loch or reservoir. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.8 |
| 6 | 39 NW | Not Specified | Lake, loch or reservoir. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.8 |
| 4 | 72 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 7 | 72 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 5 | 116 NE | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 8 | 116 NE | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 6 | 168 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 9 | 168 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 7 | 181 NW | Not Specified | Lake, loch or reservoir. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|-----------|------------------------|---------------|---|---|
| | | | | Average Width in Watercourse Section (m): 11.6 |
| 10 | 181 NW | Not Specified | Lake, loch or reservoir. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 11.6 |
| 8 | 221 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 11 | 221 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 9 | 232 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 10 | 232 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 12 | 232 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 13 | 232 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 11 | 280 E | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 14 | 280 E | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 12 | 326 E | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| Not shown | 326 E | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 13 | 336 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|-----------|------------------------|---------------|---|---|
| Not shown | 336 NW | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| 14 | 338 NW | Not Specified | Lake, loch or reservoir. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 8.3 |
| Not shown | 338 NW | Not Specified | Lake, loch or reservoir. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 8.3 |
| 15 | 422 E | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |
| Not shown | 422 E | Not Specified | Inland river not influenced by normal tidal action. | Catchment Area: Severn Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided |

6.11 Surface Water Features

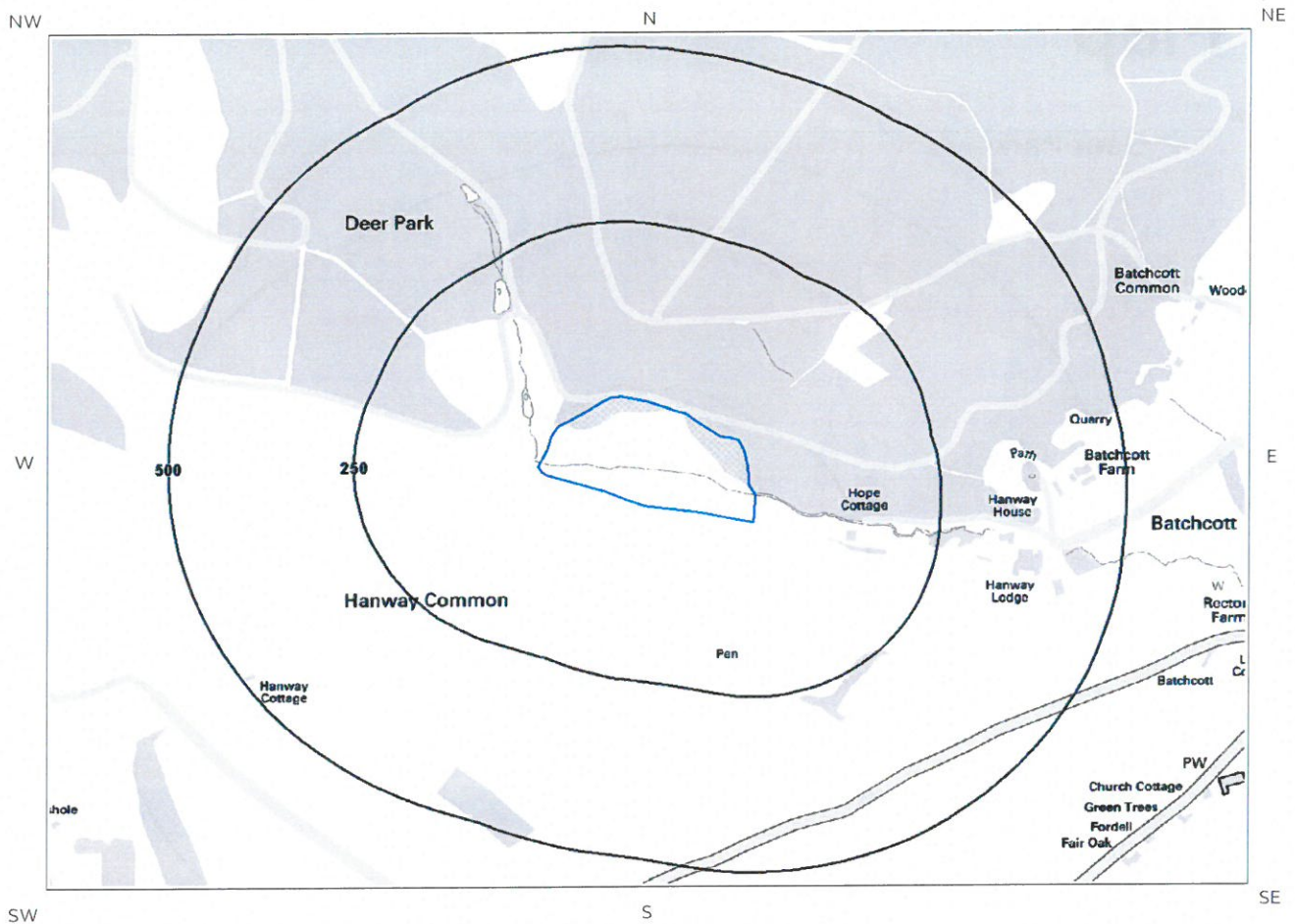
Surface water features within 250m of the study site

Identified

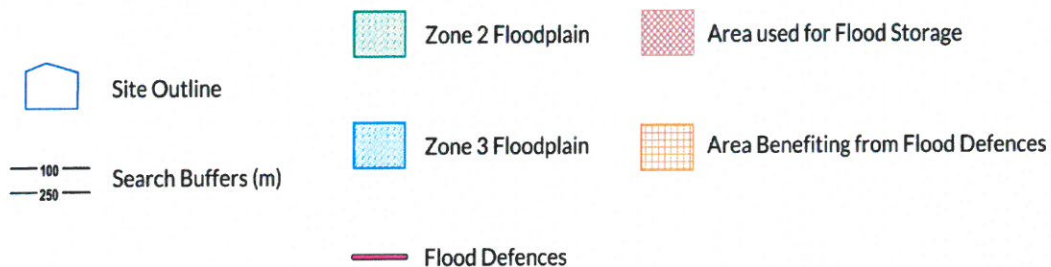
The following surface water records are not represented on mapping:

| Distance (m) | Direction |
|--------------|-----------|
| 0 | NE |
| 0 | On Site |
| 10 | NW |
| 72 | NW |
| 116 | NE |
| 152 | E |
| 181 | NW |
| 221 | NW |
| 232 | NW |
| 232 | NW |

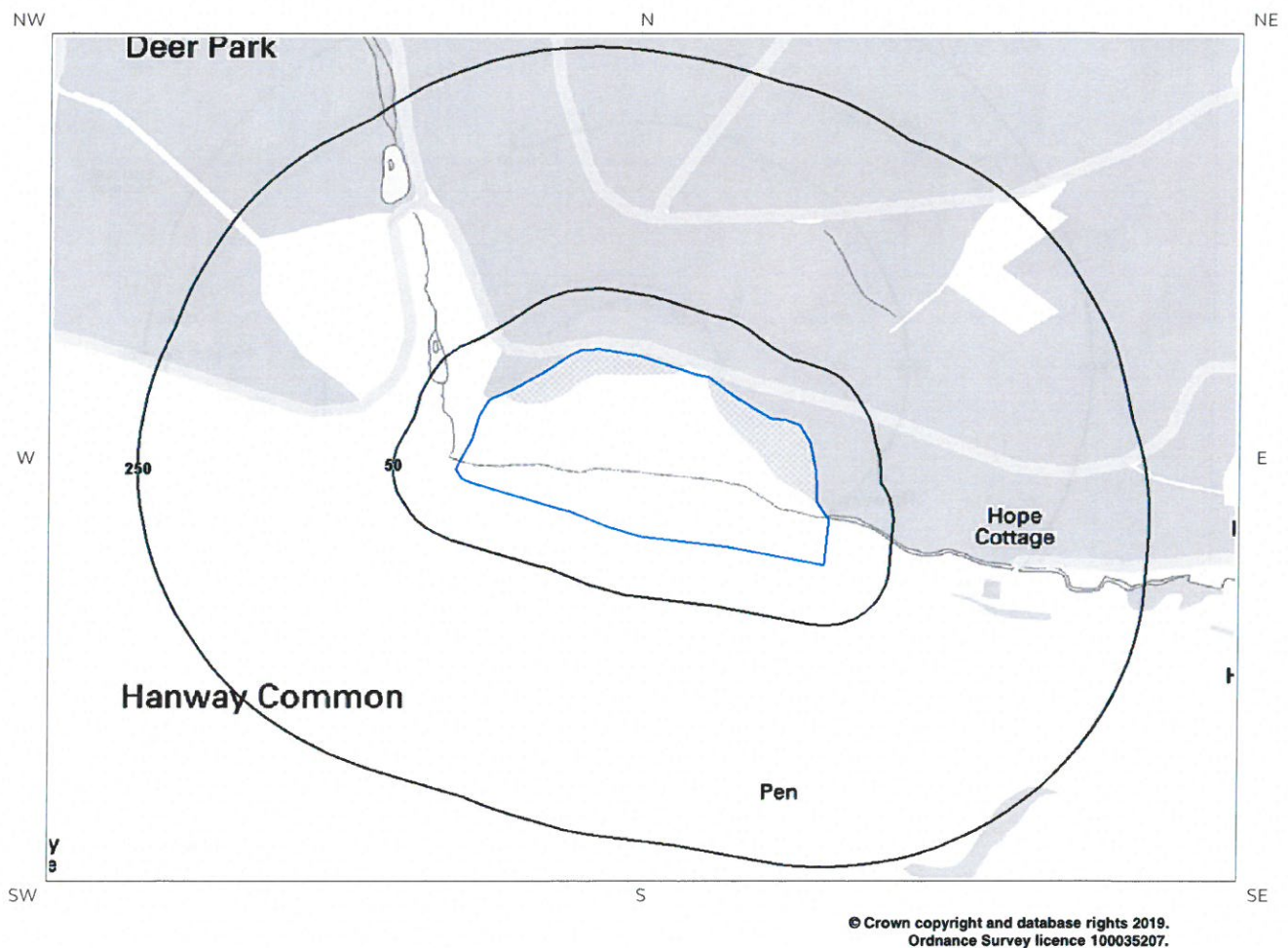
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



7 Flooding

7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m

None identified

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m

None identified

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

Database searched and no data found.

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

Highest risk of flooding onsite

Very Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

7.4 Flood Defences

Flood Defences within 250m of the study site

None identified

Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site

None identified

7.6 Areas benefiting from Flood Storage

Areas used for Flood Storage within 250m of the study site

None identified

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site

Identified

Clearwater Flooding or Superficial Deposits Flooding

Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

7.8 Groundwater Flooding Confidence Areas

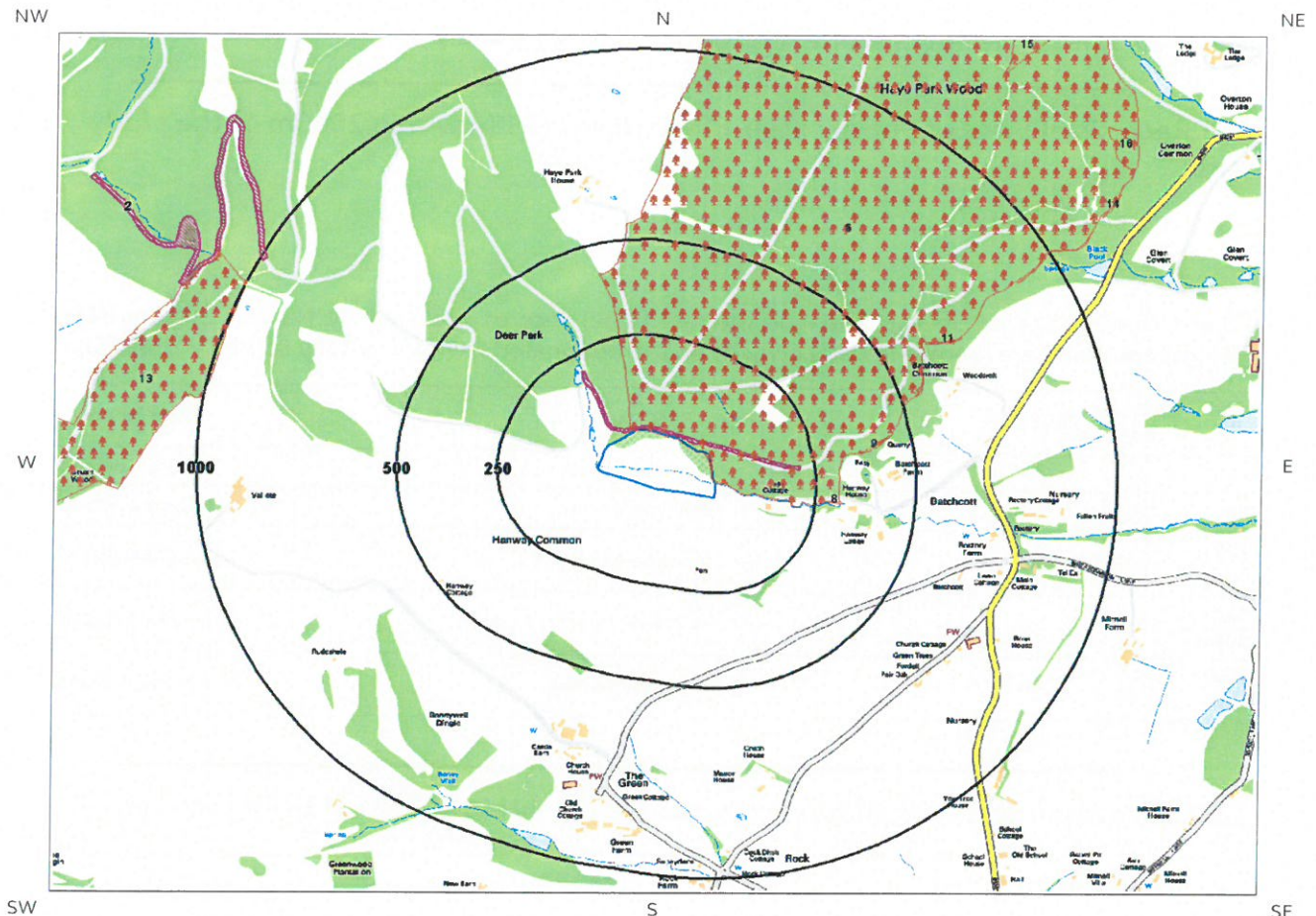
British Geological Survey confidence rating in this result

High

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites within 2000m of the study site

Identified

8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

5

The following Site of Special Scientific Interest (SSSI) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | SSSI Name | Data Source |
|-----------|--------------|-----------|--------------------|-----------------|
| 1 | 1 | N | Mortimer Forest | Natural England |
| 2 | 985 | NW | Mortimer Forest | Natural England |
| Not shown | 1562 | NE | Mortimer Forest | Natural England |
| Not shown | 1713 | N | Mortimer Forest | Natural England |
| Not shown | 1848 | W | Elton Lane Cutting | Natural England |

8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

8.6 Records of Ancient Woodland within 2000m of the study site:

19

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | Ancient Woodland Name | Data Source |
|-----------|--------------|-----------|-----------------------------|-----------------------------------|
| 6 | 0 | On Site | WHITCLIFFE WOOD | Ancient Replanted Woodland |
| 7 | 0 | On Site | UNKNOWN | Ancient and Semi-Natural Woodland |
| 8 | 273 | E | UNKNOWN | Ancient and Semi-Natural Woodland |
| 9 | 368 | E | UNKNOWN | Ancient Replanted Woodland |
| 10 | 536 | E | UNKNOWN | Ancient Replanted Woodland |
| 11 | 614 | NE | UNKNOWN | Ancient Replanted Woodland |
| 12 | 891 | NE | UNKNOWN | Ancient Replanted Woodland |
| 13 | 992 | W | BRUSH WOOD | Ancient Replanted Woodland |
| 14 | 1159 | NE | UNKNOWN | Ancient Replanted Woodland |
| 15 | 1243 | NE | WHITCLIFFE WOOD | Ancient and Semi-Natural Woodland |
| 16 | 1278 | NE | WHITCLIFFE WOOD | Ancient and Semi-Natural Woodland |
| Not shown | 1343 | SW | GOGGIN COPSE AND GREEN WOOD | Ancient and Semi-Natural Woodland |
| Not shown | 1493 | SW | GOGGIN COPSE AND GREEN WOOD | Ancient Replanted Woodland |
| Not shown | 1570 | NE | WHITCLIFFE WOOD | Ancient Replanted Woodland |
| Not shown | 1639 | SW | GOGGING COPPICE | Ancient and Semi-Natural Woodland |
| Not shown | 1734 | NE | UNKNOWN | Ancient Replanted Woodland |
| Not shown | 1756 | W | HALL WOOD | Ancient Replanted Woodland |
| Not shown | 1854 | W | HALL WOOD | Ancient and Semi-Natural Woodland |
| Not shown | 1980 | N | WHITCLIFFE WOOD | Ancient and Semi-Natural Woodland |

8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

0

Database searched and no data found.

8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

0

Database searched and no data found.

8.14 Records of Green Belt land within 2000m of the study site:

Database searched and no data found.

0

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a **Groundsure Geo Insight**, available from **our website**. The following information has been found:

9.1.1 Shrink Swell

Maximum Shrink-Swell* hazard rating identified on the study site Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|--|
| Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays. |

9.1.2 Landslides

Maximum Landslide* hazard rating identified on the study site Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter. |

9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|--|
| Significant soluble rocks are present. Problems unlikely except with considerable surface or subsurface water flow. No special actions required to avoid problems due to soluble rocks. No special ground investigation required or increased construction costs are likely. An increase in financial risk due to potential problems with soluble rocks is unlikely. |

* This indicates an automatically generated 50m buffer and site.

9.1.4 Compressible Ground

Maximum Compressible Ground* hazard rating identified on the study site

Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|--|
| No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |

9.1.5 Collapsible Rocks

Maximum Collapsible Rocks* hazard rating identified on the study site

Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

9.1.6 Running Sand

Maximum Running Sand** hazard rating identified on the study site

Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|--|
| Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |

* This indicates an automatically generated 50m buffer and site.

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is in a Radon Affected Area, as between 5 and 10% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? Basic radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Coal mining areas within 75m of the study site

None identified

Database searched and no data found.

10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary

Identified

The following non-coal mining information is provided by the BGS:

| Distance (m) | Direction | Name | Commodity | Assessment of likelihood |
|--------------|-----------|---------------|--------------|--|
| 0.0 | On Site | Not available | Vein Mineral | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered |

Past underground mine workings may occur. The rock types present in these areas are such that small mineral veins may be present on which it is possible that small scale mining has been undertaken and/or it is possible that limited underground extraction of other materials may have occurred. All such occurrences are likely to be of minor localised extent and infrequent. It should be noted, however, that there is always the possibility of the existence of other sub-surface excavations, such as wells, cess pits, follies, air raid shelters/bunkers and other military structures etc. that could affect surface ground stability but which are outside the scope of this dataset. However, if in a coalfield area you should still consider a Coal Authority mining search for the area of interest.

10.3 Brine Affected Areas

Brine affected areas within 75m of the study site

None identified

Guidance: No Guidance Required.

Contact Details

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